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PTO/SB/05 (4/98)

Approved for use through 09/30/2000. OMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No.

12270-B

First Inventor or Application Identifier

Curtis Lee Carrender

Title

Distance/Ranging by Determination of RF..

Express Mail Label No.

EK386615214US

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1.  \* Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2.  Specification [Total Pages 21]
  - Descriptive title of the Invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to Microfiche Appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
3.  Drawing(s) (35 U.S.C. 113) [Total Sheets 3]
4. Oath or Declaration [Total Pages 3]
  - a.  Newly executed (original or copy)
  - b.  Copy from a prior application (37 C.F.R. § 1.63(d))  
(for continuation/divisional with Box 16 completed)
    - i.  **DELETION OF INVENTOR(S)**  
Signed statement attached deleting  
inventor(s) named in the prior application,  
see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

**\*NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).**

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

5.  Microfiche Computer Program (Appendix)
6. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
  - a.  Computer Readable Copy
  - b.  Paper Copy (identical to computer copy)
  - c.  Statement verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

7.  Assignment Papers (cover sheet & document(s))
8.  37 C.F.R. § 3.73(b) Statement  Power of  
(when there is an assignee)  Attorney
9.  English Translation Document (if applicable)
10.  Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS  
Statement
11.  Preliminary Amendment
12.  Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
  - \* Small Entity Statement(s)  Statement filed in prior application,  
(PTO/SB/09-12)  Status still proper and desired
13.  Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
14.  Other: .....
15.  Other: .....

16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:

Continuation  Divisional  Continuation-In-part (CIP) of prior application No: \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_ Group / Art Unit: \_\_\_\_\_

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 17. CORRESPONDENCE ADDRESS

Customer Number or Bar Code Label  
(Insert Customer No. or Attach bar code label here) or  Correspondence address below

Name	Stephen R. May (K1-53)				
Address	Battelle Memorial Institute P.O. Box 999				
City	Richland	State	WA	Zip Code	99352
Country	U.S.A.	Telephone	(509) 375-2387	Fax	(509) 375-4487

Name (Print/Type)	Stephen R. May	Registration No. (Attorney/Agent)	29,255
Signature	Stephen R. May	Date	June 6, 2000

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

jc841 U.S. PTO  
00/90/90

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PTO/SB/17 (12/99)

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
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## FEE TRANSMITTAL For FY 2000

Patent fees are subject to annual revision.

Small Entity payments **must** be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12.

See 37 C.F.R. §§ 1.27 AND 1.28.

**TOTAL AMOUNT OF PAYMENT**

(\$)  
*504.00*

### Complete If Known

Application Number	Not Assigned
Filing Date	Herewith
First Named Inventor	Carrender
Examiner Name	Not Assigned
Group/Art Unit	Not Assigned
Attorney Docket No.	12270-B

### METHOD OF PAYMENT (check one)

1.  The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit  
Account  
Number

**02-1275**

Deposit  
Account  
Name

Battelle Memorial Institute - PND

Charge Any Additional Fee Required  
Under 37 CFR §§ 1.16 and 1.17

### 2. Payment Enclosed:

check     Money  
 Order     Other

### FEE CALCULATION

#### 1. BASIC FILING FEE

Large Entity Fee	Small Entity Fee	Fee Description	Fee Paid
Code (\$)	Code (\$)		
101 690	201 345	Utility filing fee	<b>345</b>
106 310	206 155	Designing filing fee	
107 480	207 240	Plant filing fee	
108 690	208 345	Reissue filing fee	
114 150	214 75	Provisional filing fee	

**SUBTOTAL (1) (\$)** **345**

#### 2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee form below	Fee Paid
29	- 20 **	= 9 X 9 = 81	
Independent Claims	5	- 3 **	= 2 X 39 = 78
Multiple Dependent			

\*\* or number previously paid, if greater; For Reissues, see below

Large Entity Fee	Small Entity Fee	Fee Description	Fee Paid
Code (\$)	Code (\$)		
103 18	203 9	Claims in excess of 20	
102 78	202 39	Independent claims in excess of 3	
104 260	204 130	Multiple dependent claim, if not paid	
109 78	209 39	**Reissue independent claims over original patent	
110 18	210 9	**Reissue claims in excess of 20 and over original patent	

**SUBTOTAL (2) (\$)** **159.00**

3. ADDITIONAL FEES				
Large Entity Fee	Small Entity Fee	Fee Description	Fee Paid	
Fee Code (\$)	Fee Code (\$)			
105 130	205 65	Surcharge- late filing fee or oath		
127 50	227 25	Surcharge- late provisional filing fee or cover sheet		
139 130	139 130	Non-English specification		
147 2,520	147 2,520	For filing a request for reexamination		
112 920*	112 920*	Requesting publication of SIR prior to Examiner action		
113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action		
115 110	215 55	Extension for reply within first month		
116 380	216 190	Extension for reply within second month		
117 870	217 435	Extension for reply within third month		
118 1,360	218 680	Extension for reply within forth month		
128 1,850	228 925	Extension for reply within fifth month		
119 300	219 150	Notice of Appeal		
120 300	220 150	Filing a brief in support of an appeal		
121 260	221 130	Requesting for oral hearing		
138 1,510	138 1,510	Petition to institute a public use proceeding		
140 110	240 55	Petition to revive – unavoidable		
141 1,210	241 605	Petition to revive – unintentional		
142 1,210	242 605	Utility issue fee (or reissue)		
143 430	243 215	Design issue fee		
144 580	224 290	Plant issue fee		
122 130	122 130	Petitions to the Commissioner		
123 50	123 50	Petitions related to provisional applications		
126 240	126 240	Submission of Information Disclosure Stmt		
581 40	581 40	Recording each patent assignment per property (times number of properties)		
146 690	246 345	Filing a submission after final rejection (37 CFR § 1.129(a))		
149 690	249 345	For each additional invention to be examined (37 CFR § 1.129(b))		
Other fee (specify)				
Other fee (specify)				

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3) (\$)**

SUBMITTED BY					
Name (Print/Type)		Registration No.		Complete (if applicable)	
Stephen R. May		(Attorney/Agent)	29,255	Telephone	(509) 375-2387
Signature	<i>Stephen R. May</i>	Date	<i>June 6, 2000</i>		

SENT TO: Assistant Commissioner for Patents, Washington, DC 20231.

EXPRESS MAIL MAILING LABEL #EK386615214US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	)	
Curtis Lee Carrender	)	
	)	
	)	
	)	
For: DISTANCE/RANGING BY	)	Our Ref. No: 12270-B
DETERMINATION OF RF	)	
PHASE DELTA	)	Date: June 5, 2000
	)	

**CERTIFICATE OF MAILING**

Box PATENT APPLICATION  
Commissioner of Patents and Trademarks  
Washington, DC 20231

Dear Sir:

The undersigned hereby certifies that the attached:

- [ X ] Patent Application of \_\_\_\_\_ pages, and
- [ X ] Drawings of \_\_\_\_\_ Sheets
- [ X ] Fee Transmittal (2 ea.)
- [ X ] Assignment / Cvr. Sheet
- [ X ] Combined Declaration and Power of Attorney
- [ X ] Small Entity
- [ ] Information Disclosure
  - [ ] with attachments .

are being deposited with the United States Postal Service as:

- [ ] First Class Mail
- [ X] Express Mail - Label #EK386615214US in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231, on the date set forth below.

Janice K. Leybourne  
Signature

June 6, 2002  
Date Deposited

Janice K. Laybourn K1-53  
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